Utkarsh Mishra
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EDUCATION

MS in Business Analytics and Artificial Intelligence (Data Science)
University of Texas at Dallas, TX (USA)   **Aug 2023 - May 2025**
NLP, Applied Machine Learning, AI in Marketing, Econometrics and Time Series, Predictive Modeling, Prescriptive Modeling, Web Analytics, DBMS, Visualization, Statistics

Executive PG in Data Science
International Institute of Information Technology (India)   **May 2020 - May 2021**
Python (Bootcamp), Data Toolkit, Data Visualization, Advanced Machine Learning, Business Requirements for Data Science, Capstone

Bachelor of Business Management (Marketing Honors)
Xavier Institute of Management- Bhubaneswar (India)   **Apr 2016 - Apr 2019**
Business Communication, Business Management, Sustainability, Statistics, Marketing, Digital Marketing, Sales, Supply Chain, Business Finance, Accounting

PROFESSIONAL EXPERIENCE

Business Projects IT Intern | *University of Texas System, Richardson, TX, USA*   **June 2024 - Aug 2024**
• **Extracted, cleaned, and validated large datasets** from SQL, Excel, and internal systems, improving reporting accuracy by 15% across departments.
• **Reduced ETL pipeline** latency by 11% and resolved data anomalies 30% faster by implementing diagnostic workflows with engineers and PMs.
• **Built and maintained 5+ interactive dashboards** to monitor 50K+ operational records, cutting report generation time by 16% and boosting executive visibility by 13%.
• **Delivered weekly KPI insights to stakeholders** from 50K+ records, accelerating leadership decision-making by 18% and increasing strategic meeting engagement by 23%.

Business Data Analyst | Webcraft IT, Indore, MP, India   **July 2019 - July 2023**
• **Bridged the gap between technical diagnostic outputs and stakeholder comprehension** by translating complex system stress-test results into actionable insights, driving an 18% improvement in operational continuity and reducing executive review cycles by 22%.
• **Built segmentation models** based on product logic to enhance order fulfillment accuracy, reducing churn by 9% and increasing delivery precision by 12% across 200K+ customer records.
• **Drafted analytics briefs and optimized documentation workflows**, supporting contract exception handling that cut response time by 22% and improved SLA adherence during compliance reviews.
• **Led data standardization efforts** for 120K+ dealership records, resolving inconsistencies and boosting data accuracy by 9% for downstream reporting systems.
• **Monitored contract-based KPIs** and enforced documentation integrity for 50K+ records, accelerating issue triage by 30% and increasing audit readiness across compliance evaluations.

Financial Analyst Intern | *Tata Consultancy Services (TCS), Mumbai, India*   **May 2017 – Jun 2017**
• Conducted financial analysis for 20+ corporate clients, reviewing revenue, expenses, and budgets to uncover cost trends and performance insights.
• Leveraged Oracle General Ledger to streamline reporting, improving accuracy and timeliness of financial deliverables.

ACADEMIC PROJECTS

DashAI – AI Recommendation & Business Intelligence System | MSBA-AI, UTD (https://github.com/Utkarshm1/DashAI)
• A drag-and-drop AI-powered BI tool in Python/Streamlit that auto-selects optimal analysis workflows, reducing time-to-insight by 27% and enabling strategic decision-making without technical barriers.
• Embedded intelligent modules (XGBoost, SHAP, Prophet, K-Means) to power no-code forecasting, segmentation, and explainability, increasing adoption across marketing, retail, and finance teams by streamlining BI access.

Image Classification for Visual Search Optimization | MSBA-AI, UTD (https://github.com/Utkarshm1/Freespeech)
• Developed a CNN-based image classification pipeline for optimizing visual product discovery, achieving 75% top-3 accuracy on 60K Fashion MNIST images and improving system search efficiency by 28%.
• Improved model robustness and throughput using preprocessing (normalization, PCA, augmentation) and simulated GPU-accelerated inference to enhance real-time classification for logistics-driven e-commerce platforms.

Cloud-Based Analytics & Streaming Pipelines | MSBA-AI, UTD
• Designed reconciliation workflows for simulated eligibility and claims data, increasing data accuracy by 17% and enabling 25% faster error detection in test environments.
• Engineered scalable real-time telemetry pipelines using Azure Event Hubs, automating diagnostics across 100K+ infrastructure events and reducing anomaly resolution time by 30%.

SKILLS

Machine Learning & Experiment:	Supervised/Unsupervised Learning, A/B Testing, Causal Inference, Hyperparameter Tuning, Model Optimization, Statistical Inference, Feature Engineering
NLP & Model Deployment:	Transformers, Hugging Face, BERT, NLTK, Word2Vec, Streamlit App Deployment, Flask APIs
Cloud & Data Engineering:	Azure (Synapse, Event Hubs), GCP (BigQuery, Vertex AI – academic exposure), AWS (basic), ETL Pipelines, Data Cleaning, Data Wrangling, Linux (basic), Infrastructure Optimization, Rack-Scale Deployment Planning
Business Intelligence & Visualization:	Power BI, Tableau, Matplotlib, Seaborn, Plotly, Operational Dashboards, Stakeholder Reporting, Agile, Cross-Functional Collaboration,
Tools & Languages:	Python, SQL, R(basic), SAS (basic), Tableau, Power BI, Excel, Snowflake, Spark, Alteryx, KNIME